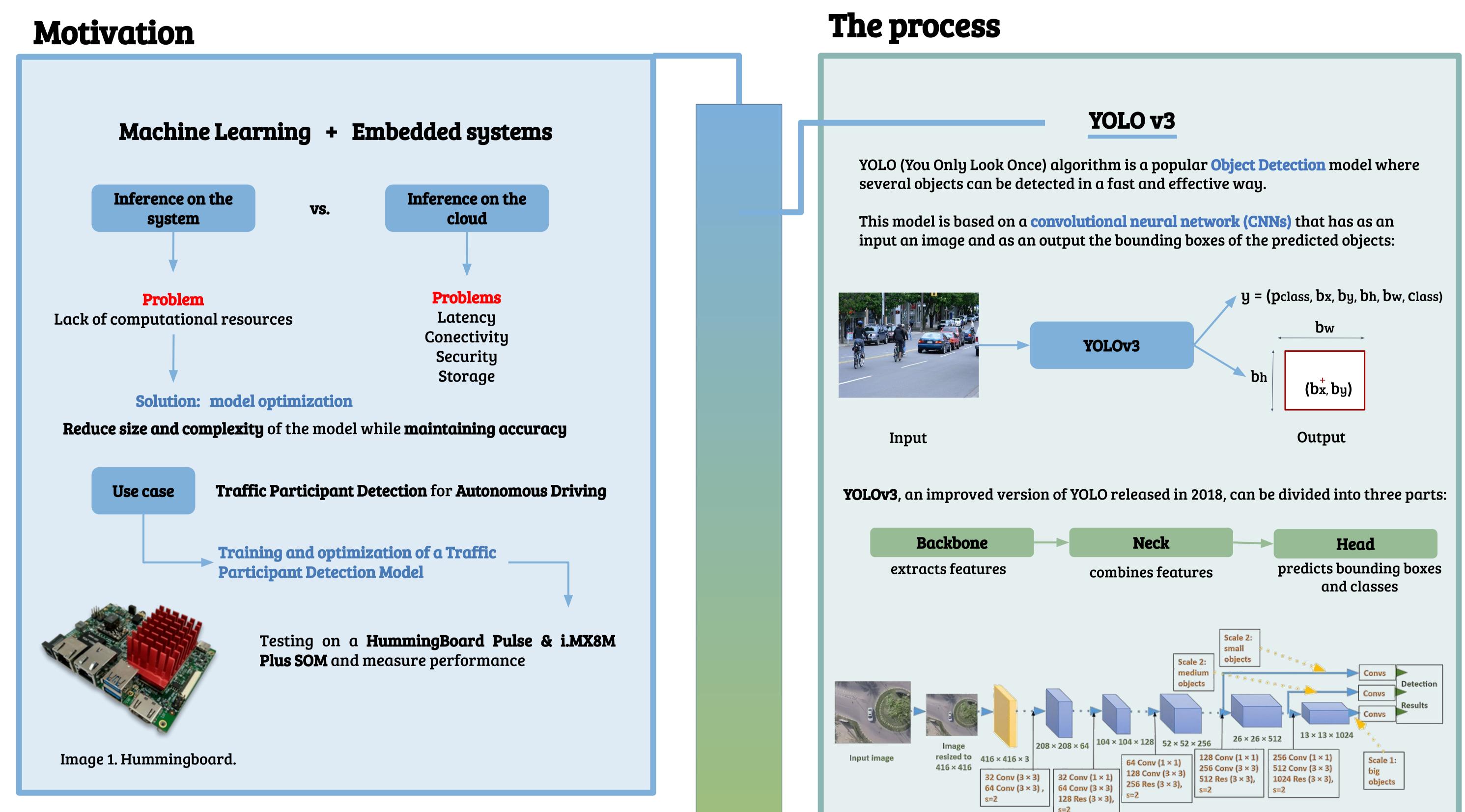
Optimization of Object Detection Methods for traffic participants



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Results

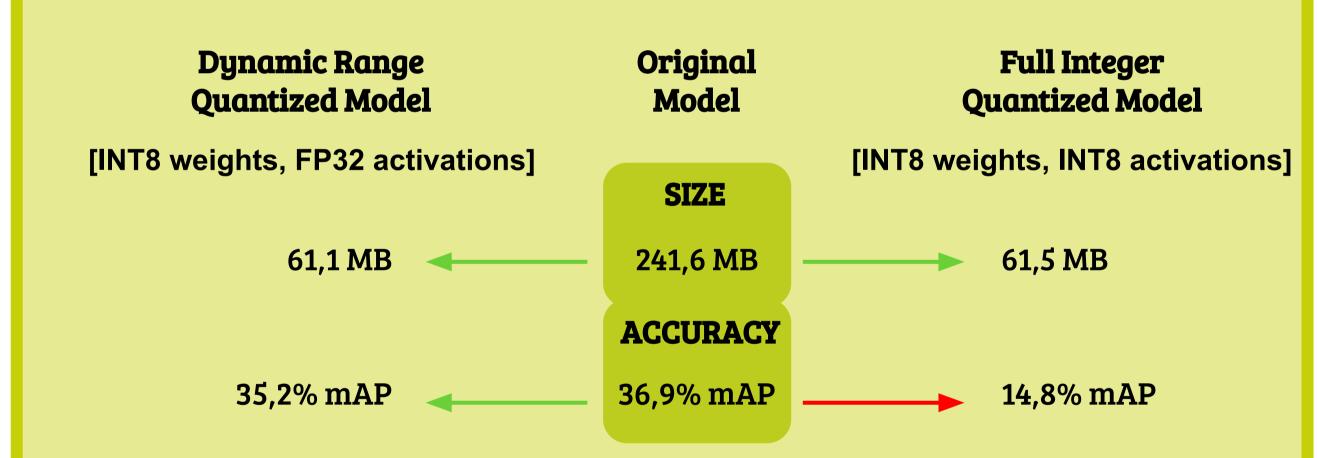


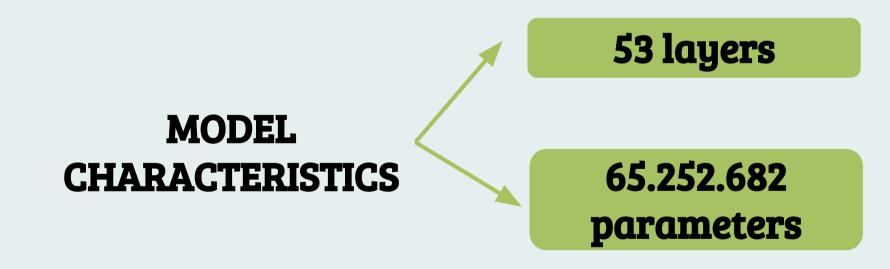


Image 3. Traffic image and input of the network.

Image 4. Traffic participants detection after YOLOv3 estimations.

Image 2. YOLOv3 architecture.

Furthermore, YOLOv3 model performs **predictions at three different scales** to better detect objects of different sizes.



Berkeley DeepDrive Dataset

- **100.000 frames** of driving videos, from the perspective of a driver.
- Quality checked object detection annotations (2020) in Coco format.
- **13 classes:** traffic sign, traffic light, car, rider, motorcycle, pedestrian, bus, truck, bicycle, other vehicle, train, other person, trailer.



